

Application 10,679,075

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Amendments to the Claims

The listing of claims will amend and withdraw certain prior claim versions, and listings, of claims in this application as discussed with patent examiner in informal phone interview:

Listing of Claims:

Independent Claims: 3

Dependent Claims: 12

Claims 22, 23, 24, 30, 34, and 35 are withdrawn

21. (Currently Amended) A shelter photovoltaic canopy capable of producing electrical energy comprising:

a photovoltaic canopy defining a sheltered area thereunder, the sheltered area including at least one vehicle parking space, the photovoltaic canopy including an upper surface having a first photovoltaic device, and a lower surface having a second ~~photovoltaic device, and~~ a light emitting diode device, wherein the ~~first and second~~ photovoltaic device ~~are~~ is capable of producing an electrical current when exposed to light;

a supporting structure connected to and supporting the canopy and permitting substantially unobstructed access by a vehicle to the sheltered area; and

an electrical light emitting diode load operatively connected to the ~~first and second~~ photovoltaic devices for utilizing the electricity generated by the photovoltaic device when the photovoltaic ~~device~~ canopy is exposed to light;

wherein the shelter has no walls

6)

22. (Withdrawn)

23. (Withdrawn)

24. (Withdrawn)

2)

25. (Currently Amended) The shelter photovoltaic canopy of claim 21 wherein the first ~~and second~~ photovoltaic devices ~~are~~ is selected from the group consisting of ~~crystalline photovoltaic systems~~, flexible thin film photovoltaic systems, and the second device consists of stacked photovoltaic layers and photovoltaic and light emissive layers.

(3)

26. (Currently Amended) The ~~shelter~~ photovoltaic canopy of claim 25 wherein the ~~first and second photovoltaic canopy devices~~ are is transparent.

27. (Currently Amended) The shelter photovoltaic canopy of claim ~~26~~ 25 wherein the transparent ~~first and second photovoltaic devices~~ canopy are is composed of multiple layers of flexible thin transparent photovoltiac material.

h)

28. (Currently Amended) The ~~Shelter~~ photovoltaic canopy of claim ~~24~~ 25, further comprising:

an organic artificial light source layer ~~associated~~ attached with to the underside of the canopy;

wherein the second ~~photovoltaic~~ artificial light source information display device layer is directed toward the ground to receive light from the artificial light source and;

wherein the upper surface of the photovoltaic canopy is oriented to receive sunlight directly.

(5)

29. (Currently Amended) The ~~shelter~~ photovoltaic canopy of claim ~~24~~ 25 wherein the artificial emissive light source layer is dispersed within the ~~second~~ photovoltaic ~~device~~ canopy.

6)

30. (Withdrawn)

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31. (Currently Amended) The light emitting diode device of claim 21 ~~wherein the light emitting diode~~ is capable of displaying human readable information; and

act as an information display.

32. (Currently Amended) The device claim 21 wherein the light emitting diode is a ~~flexible~~ thin film organic light emitting diode layer capable of acting as an information display.

(2)

33. (Currently Amended) A ~~shelter~~ photovoltaic canopy capable of producing electrical energy comprising:

a canopy defining a sheltered area thereunder, the sheltered area including at least one vehicle parking space;

a supporting structure connected to and supporting the canopy and permitting substantially unobstructed access by a vehicle to the sheltered area;

~~a photovoltaic canopy device associated with the canopy, the photovoltaic device being is~~ capable of producing an electrical current when exposed to sunlight, the photovoltaic ~~canopy device including~~ includes a light emitting coating layer attached to the underside and the photovoltaic ~~canopy device and~~ is capable of generating electricity from the light emitted by the light emitting coating layer; and

an electrical light emitting layer load is operatively connected to the photovoltaic ~~canopy device~~ canopy for utilizing the electricity generated by the photovoltaic ~~canopy device~~ when the photovoltaic ~~canopy device~~ is exposed light to sunlight and artificial light emitting light layer;

wherein the shelter has no walls.

9)

34. (Withdrawn)

35. (Withdrawn)

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36. (Currently Amended) A ~~carport~~ photovoltaic canopy comprising:

at least one canopy, the photovoltaic canopy sheltering a parking area for at least one vehicle;

an indirectly mounted foundation, laterally placed supporting structure connected to and supporting the photovoltaic canopy and permitting substantially unobstructed access by a vehicle to the parking area space;

~~a photovoltaic device associated with the canopy, the photovoltaic device canopy being capable of producing a DC electrical current when exposed to sunlight, the photovoltaic canopy device including having an upper surface area panel; and~~

a lower surface area, including a light emitting diode coating panel attached thereunder and the photovoltaic canopy device is capable of generating electricity from the light emitted by the light emitted diode coating panel; and

an electrical load operatively connected to the photovoltaic device canopy for utilizing the electricity generated by the photovoltaic canopy device when the photovoltaic canopy device is exposed to light sunlight and artificial light panel, wherein the electrical load is selected from the group consisting of the power distribution grid of a utility company and a battery.

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37. (Currently Amended) The ~~carport~~ photovoltaic canopy of claim 36 wherein the load comprises a battery which is charged by the DC current produced by the photovoltaic ~~device~~ canopy.

38. (Currently Amended) The carport of claim 36 further comprising:
an inverter for converting the DC electrical current produced by the photovoltaic ~~device~~ canopy to an AC current; and

~~a connection for~~ transmitting the AC electrical current to a power distribution grid of the utility company

39. (Currently amended) The ~~carport~~ photovoltaic canopy of claim 36 further comprising a reverse meter for measuring AC current produced by the inverter.

40. (Currently Amended) The ~~shelter~~ photovoltaic canopy of claim 36 wherein the ~~canopy~~ photovoltaic canopy each includes a plurality of at least two of panels, each including the upper surface panel being having a first photovoltaic device, the lower surface having a second ~~photoelectric device, and the~~ light emitting diode device panel attached thereunder, wherein the light emitting diode is an information display.

41. (Currently Amended) The ~~shelter~~ photovoltaic canopy of claim 36 ~~40~~ wherein, ~~wherein~~ the position of the canopy panels ~~is~~ are tiltable and adjustable.

adjustable;

- 9 a photovoltaic canopy panel capable producing electricity comprising a photovoltaic layer and an artificial light layer contained in and attached thereunder with the photovoltaic canopy and configured to emit artificial light, wherein the photovoltaic layer is configured to produce an electrical current when exposed to sunlight and artificial light emitted from the artificial light layer;

In view of the Currently Amended claims and the substantial differences discussed above in comparison to the cited prior art, it is respectfully submitted that the Currently Amended claims which are now active in this application, clearly and patentably distinguish this invention over the prior art. The prior art, alone or in combination, simply does not disclose, teach or suggest the Applicant's invention as recited in all the Independent Claims forms which rely are relied upon with the Dependent claim forms that shows alternative unique embodiments of the claimed invention and carry these unique embodiments which are Dependent upon one another, distinguishing this invention for any of the prior art.

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